which this filter block is displayed to the user (e.g., a checkbox or a radio button). The label is the text that appears to the user for the filter block. The list order is the order that the filter block should appear in a list. The name is the name of the filter block. The plural field is the text that appears to the user for the filter block. The mapping flag is used in the mapping. The ticksheet key points to the ticksheet that this filter block belongs.

IN THE CLAIMS

Please cancel Claims 1-14 and 17-47 without prejudice. Please add the following claims:

48.   A computer-implemented method for creating a database system, the method comprising:

creating a definition of the database system using metadata, wherein the metadata includes a definition of a data schema;

creating the database system from raw data using the definition of the database system, wherein the database system:

includes tables defined by the data schema;

is operable according to one or more pre-determined rules; and

includes instructions to process data stored in the database system.

49.   The method of claim 48, wherein the metadata includes a definition of one or more constellations in the database system.

50.   The method of claim 48, wherein the metadata includes a definition of one or more aggregates in the database system.

51.   The method of claim 48, wherein the metadata includes a definition of one or more dimensions in the database system.

52.   The method of claim 48, wherein the data schema includes a star schema.

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53.   The method of claim 48, further including:

receiving the metadata via a user interface, wherein the user interface enables a user to specify the metadata.

54.   The method of claim 48, the tables including one or more columns, wherein the pre-determined rules include: if two columns are related by a relational join, then the columns will be from the same domain.

55.   The method of claim 48, the tables including a first table and a second table, wherein the pre-determined rules further include: if the first table relates to the second table by a many to one relationship, then the first table has a foreign key column for holding a foreign key to the second table.

56.   The method of claim 48, wherein the pre-determined rules further include: if the first table relates to the second table by a many to many relationship, then creating an associative table corresponding to the first table and the second table, wherein the associative table has a unique value created for each unique many-to-many relationship between the first table and the second table.

57.   The method of claim 48, further comprising:
automatically including a transaction type column in some of the tables.

58.   The method of claim 48, further comprising:
automatically including a date column in some of the tables.

59.   The method of claim 48, further comprising:
automatically including a source system key column in some of the tables.

60.   The method of claim 48, further comprising:
receiving the data from a source;
receiving metadata that defines one or more source extraction operations; and
extracting the data from the source using the extraction operations.

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61.   The method of claim 48, the database system including one or more aggregate tables, further including:

receiving metadata that defines one or more aggregates;

creating tables for the aggregates, and operations on the aggregate tables using the definition; and

populating the aggregate tables using the data.

62.   The method of claim 48, further comprising:

creating a user interface from the definition; and

performing operations on the database in response to a request received via the user interface.

63.   The method of claim 62, wherein the operations include SQL queries.

64.   The method of claim 62, further including:

sending the results of the request to the user.

65.   The method of claim 62, wherein the request is received over a computer network.

66.   The method of claim 62, wherein the user interface is accessible via a Web browser.

67.   The method of claim 48, wherein the database system operates as a datamart.

68.   A computer system for creating a database system, the computer system comprising:

one or more computers;

a computer program executable by at least one computer;

wherein the computer program includes computer instructions for:

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creating a definition of the database system using metadata, wherein the metadata includes a definition of a data schema;

creating the database system from raw data using the definition of the database system, wherein the database system:

includes tables defined by the data schema;

is operable according to one or more pre-determined rules; and

includes instructions to process data stored in the database system.

69. The computer system of claim 68, wherein the metadata includes a definition of one or more constellations in the database system.

70. The computer system of claim 68, wherein the metadata includes a definition of one or more aggregates in the database system.

71. The computer system of claim 68, wherein the metadata includes a definition of one or more dimensions in the database system.

72. The computer system of claim 68, wherein the data schema includes a star schema.

73. The computer system of claim 68, wherein the computer program includes further computer instructions for:

receiving the metadata via a user interface, wherein the user interface enables a user to specify the metadata.

74. The computer system of claim 68, the tables including one or more columns, wherein the pre-determined rules include: if two columns are related by a relational join, then the columns will be from the same domain.

75. The computer system of claim 68, the tables including a first table and a second table, wherein the pre-determined rules further include: if the first table relates to the

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second table by a many to one relationship, then the first table has a foreign key column for holding a foreign key to the second table.

76.   The computer system of claim 68, wherein the pre-determined rules further include: if the first table relates to the second table by a many to many relationship, then creating an associative table corresponding to the first table and the second table, wherein the associative table has a unique value created for each unique many-to-many relationship between the first table and the second table.
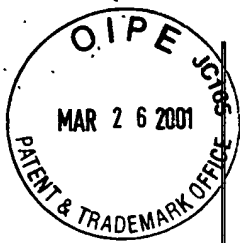
77.   The computer system of claim 68, wherein the computer program includes further computer instructions for:
automatically including a transaction type column in some of the tables.

78.   The computer system of claim 68, wherein the computer program includes further computer instructions for:
automatically including a date column in some of the tables.

79.   The computer system of claim 68, wherein the computer program includes further computer instructions for:
automatically including a source system key column in some of the tables.

80.   The computer system of claim 68, wherein the computer program includes further computer instructions for:
receiving the data from a source;
receiving metadata that defines one or more source extraction operations; and
extracting the data from the source using the extraction operations.

81.   The computer system of claim 68, the database system including one or more aggregate tables, wherein the computer program includes further computer instructions for:
receiving metadata that defines one or more aggregates;
creating tables for the aggregates, and operations on the aggregate tables using the definition; and

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populating the aggregate tables using the data.

82.   The computer system of claim 68, wherein the computer program includes further computer instructions for:

creating a user interface from the definition; and

performing operations on the database in response to a request received via the user interface.

83.   The computer system of claim 82, wherein the operations include SQL queries.

84.   The computer system of claim 82, wherein the computer program includes further computer instructions for:

sending the results of the request to the user.

85.   The computer system of claim 82, wherein the request is received over a computer network.

86.   The computer system of claim 82, wherein the user interface is accessible via a Web browser.

87.   The computer system of claim 68, wherein the database system operates as a datamart.

REMARKS

Claims 1-14 and 17-47 are pending in the above-referenced application. All Claims stand rejected under 35 U.S.C. §103(a) as being unpatentable over Bapat, U.S. Patent Number 5,295,256 ("Bapat") in view of Malloy et al., U.S. Patent Number 5,905,985. Claims 1-14 and 17-47 are canceled without prejudice. Applicants present new Claims 48-87 for consideration.

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